

WAGGA WAGGA  
NSW

WEDNESDAY 14 &  
THURSDAY 15  
FEBRUARY 2024

# GRAINS RESEARCH UPDATE

DRIVING PROFIT THROUGH RESEARCH



**Joyes Hall & Convention Centre,  
Charles Sturt University, Pine Gully Rd, Wagga Wagga, NSW 2650**

The 2-day GRDC Grains Research Update at Wagga Wagga is a 'don't miss event' for the grains industry in Southern NSW & Northern Victoria. Come to hear about and discuss the latest grains research information, share ideas and have a wonderful time with colleagues and friends.

Image: Matt Dunn, NSW DPI

[grdc.com.au](http://grdc.com.au)

## Day 1 Program: Wednesday 14 February 2024

9am registration for a 10am start, finish at 5:20pm

Time	Topic	Speaker(s)
9:00 am	Registration, morning tea & trade displays	
10:00 am	Welcome	GRDC
10:30 am	The science under pinning farm gate greenhouse gas (GHG) footprint	Warwick Badgery (NSW DPI)
11:05 am	GHG calculators for your grain farming business	Ben White (Kondinin Group)
11:30 am	Securing access to nitrogen for food production, a GHG perspective	Rob Norton (Norton Agronomic)
12:05 pm	<i>PhD Presentation:</i> Fertilise the farming system not just the crop if you want to build soil organic matter. The impact of nutrient stoichiometry on carbon sequestration in dispersive subsoils	Andrew Regan (UNE)
12:20 pm	Lunch	
1:20 pm	Concurrent session 1 – See concurrent sessions for details	
3:05 pm	Afternoon tea	
3:35 pm	Concurrent session 2 – See concurrent sessions for details	
5:20 pm	Close	
7:00 pm	Networking dinner & drinks at the Thirsty Crow Brewery, 153 Fitzmaurice St, Wagga Wagga <i>Courtesy of AGT &amp; Syngenta</i>	

## Day 2 Program: Thursday 15 February 2024

7:30–8:20am early risers session. Day sessions 8:30am start, finish at 3:00pm

Time	Topic	Speaker(s)
7:30 am	EARLY RISERS DISCUSSION SESSION Risks and rewards of running higher N budgets	John Kirkegaard (CSIRO), Mathew Dunn (NSW DPI) & Rob Norton (Norton Agronomic)
8:30 am	Concurrent session 3 – See concurrent sessions for details	
10:15 am	Morning tea	
10:45 am	Concurrent session 4 – See concurrent sessions for details	
12:30 pm	Lunch	
1:30 pm	Where AI adds value to agronomic and crop decision-making now, and where might this technology be in 5 years?	Liam Ryan (GRDC)
2:00 pm	The Cool Soil Initiative: A farmer-focused, scalable framework for emission reporting through the supply chain	Fionia McCreadie (Cool Soils)
2:25 pm	Bridging the sustainability divide: Challenges and opportunities in key markets for Australian grain	Chris Carter (AEGIC)
3:00 pm	Close	

## Location & timing of concurrent sessions

	Joyes Hall (Live streamed)	Venue 2	Venue 3
Day 1 – Session 1	Farming systems, dual purpose crop economics & the genetics of heat stress	Cereal diseases	Pot pouri
Day 1 – Session 2	Cereal diseases	Farming systems, dual purpose crop economics and the genetics of heat stress	Pot pouri
Day 2 – Session 3	Weeds	New tech & start-ups	Slugs, climate forecasts & crop weather services
Day 2 – Session 4	New tech & start-ups	Weeds	Slugs, climate forecasts & crop weather services

(Agenda subject to change)



## Concurrent Sessions – DAY 1

### Farming systems, dual-purpose crop economics and the genetics of heat stress (Sessions 1 & 2)

Session Time		Topic and Speaker(s)
1 Live stream	2	
1:20 pm	3:35 pm	Heat stress & harvest heroes: Cultivating tolerance in wheat through innovative breeding to enhance grain fill <i>Rebecca Thistlethwaite (Uni of Sydney)</i>
1:50 pm	4:05 pm	Farming systems – profit over time & risk –Exploring N legacy impacts in different farming systems <i>John Kirkegaard (CSIRO)</i>
2:25 pm	4:40 pm	Revisiting the economics of dual-purpose crops under current meat & wool prices <i>John Francis (Agrista)</i>

### Cereal diseases (Sessions 1 & 2)

Session time		Topic and Speaker(s)
1	2 Live stream	
1:20 pm	3:35 pm	Rust management issues in 2024 <i>Mumta Chhetri (Uni of Syd PBI)</i>
1:50 pm	4:05 pm	Septoria tritici management in 2024 <i>Brad Baxter (NSW DPI)</i>
2:20 pm	4:35 pm	Strategies to reduce losses from crown rot <ul style="list-style-type: none"> <li>performance of Victrato® in wet and dry seasons</li> <li>strategies to reduce inoculum load</li> <li>resistance and stewardship for Victrato®.</li> </ul> <i>Steven Simpfendorfer (NSW DPI)</i>

### Pot pouri (Sessions 1 & 2)

Session time		Topic and Speaker(s)
1	2	
1:20 pm	3:35 pm	The long & the short of it: How longer hypocotyls could improve canola establishment <i>Matt Nelson (CSIRO)</i>
1:50 pm	4:05 pm	RLEM & resistance: the latest in best practice management & new decision-aid tools <i>James Maino (Cesar)</i>
2:20 pm	4:35 pm	Sensors, automation, data & ag tech case study: setting the farm up for the future using lidar technology to reduce waterlogging <i>Jay Carrol (Civil Ag Design Moree)</i>
2:45 pm	5:00 pm	Comparing the effect of weed seed impact mills on the weed seed bank <i>Ben White (Kondinin) &amp; John Broster (CSU)</i>

## Concurrent Sessions – DAY 2

### Weeds (Sessions 3 & 4)

Session Time		Topic and Speaker(s)
3 Live stream	4	
8:30 am	10:45 am	Novel weed control technologies under development in the US for HWSC & controlling weeds post-em <i>Mike Walsh (Uni of WA)</i>
9:00 am	11:15 am	Resistance management strategies for glyphosate resistant weeds; finessing pre-em herbicides & getting the early post-em space right <i>Chris Preston (Uni of Adelaide)</i>

9:45 am	12:00 pm	Panel discussion: Chemical & cultural options to manage glyphosate resistant ryegrass, glyphosate resistant & susceptible sow thistle & paraquat resistant fleabane <i>Greg Condon (Grassroots Agronomy), Barry Haskins (AgGrow Agronomy), Craig Warren (Nutrien Temora)</i>
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### New tech & start-ups (Sessions 3 & 4)

Session time		Topic and Speaker(s)
3	4 Live stream	
8:30 am	10:45 am	Integrating soil moisture sensor technology on sowing equipment to optimise seeding depth & establishment <i>David Finlay (MPT)</i>
8:45 am	11:00 am	Using guided work instructions for on-farm maintenance, operation & repair <i>Nick Walker / Liam Scanlon (Hindsite Industries)</i>
9:00 am	11:15 am	A handheld lab for better infield decision making <i>Peter Johnston (Hone Ag)</i>
9:15 am	11:30 pm	Robust remote area connectivity solutions <i>Dan Winson (Zetifi)</i>
9:30 am	11:45 am	Automated agricultural disease detection <i>Edward Gubbins (BioScout)</i>
9:45 am	12:00 pm	Manage environmental data such as soil tests for fertiliser budgets, or developing carbon offset projects <i>Sam Duncan (Farmlab)</i>

### Slugs, climate forecasts & crop weather services (Session 3 & 4)

Session time		Topic and Speaker(s)
3	4	
8:30 am	10:45 am	Slugs – why did they appear in 2023 & are they likely to persist? How do new slug products perform in wet conditions & on other establishment pests & how do you determine when it's economic to treat? <i>Michael Nash (What Bugs you)</i>
9:00 am	11:15 am	Climate services for cropping – historical climate data & future projections for growing season rainfall, frost risk, heat risk at flowering & soil moisture by region for medium to longer term farm planning <i>Sigrid Tijs (BOM)</i>
9:30 am	11:45 am	Weather predictions, risk & decision making. Perspectives on making better decisions on risk management from weather & seasonal forecasts. <i>Claire Yeo (BOM)</i>

### Live stream of the event

In addition to being run as a face-to-face Update, the Joyes Hall sessions will be live streamed for online viewing.

Those who register for the live stream (free), receive a link to the live stream close to the event and a link to the online proceedings. Not all concurrent sessions will be run in Joyes Hall, so not all sessions will be live streamed. Please refer to above agenda.

Register for the livestream at <https://icanrural.com.au/updates.html>

# Registration Form



Register online at <http://www.icanrural.com.au> or complete & mail/email or fax the attached to 02 9482 4931.  
If registering to attend this event in person (ie not livestream), a tax invoice will be issued on receipt of payment.

I would like to register\* \_\_\_\_\_ (number of people) for the following:

	Face-to-face* participation*	Face-to-face* participation*	Amount
	Standard registration (received by COB Tue 6 Feb 2024) No of participants	Late registration (received after 6 Feb 2024) No of participants	\$
Both days: Wed 14 & Thu 15 Feb 2024	Cost: \$200 pp <input type="checkbox"/>	Cost: \$220 pp <input type="checkbox"/>	\$ _____
Day 1: Wed 14 Feb 2024	Cost: \$130 pp <input type="checkbox"/>	Cost: \$140 pp <input type="checkbox"/>	\$ _____
Day 2: Thu 15 Feb 2024	Cost: \$130 pp <input type="checkbox"/>	Cost: \$140 pp <input type="checkbox"/>	\$ _____
<input type="checkbox"/> I would like <input type="checkbox"/> extra copies of the proceedings (collect at conference) (\$40 each)			\$ _____
<input type="checkbox"/> I am unable to attend but would like <input type="checkbox"/> copies of proceedings (includes postage) (\$55 each, posted after the event)			\$ _____
		<b>Total</b>	<b>\$ _____</b> (GST inclusive)

## Networking dinner – Wed 14 Feb 2024

(Supported by AGT & Syngenta)

Free to face-to-face participants. No of participants: ☐

# Livestream: Proceedings will be made available electronically, (not hard copy), unless you elect to purchase a hard copy above and provide credit card details below. Register for livestream at <https://icanrural.com.au/updates.html>

### Details for tax invoice and further correspondence:

Name:			
Organisation:			
Address:		Postcode:	
Phone:		Mobile:	
Email:			
<input type="checkbox"/> I am not a participant (i.e. the above is for tax invoice/receipt only) OR <input type="checkbox"/> I am a participant			

### Participant details (fill in and tick)

Name	Email address	Mobile	Face to face		Network dinner
			Day 1	Day 2	
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

\* Day registration covers lunch, morning/afternoon tea & proceedings. Day registrants are welcome to attend the networking event on Wednesday 14 February 2024 at the Thirsty Crow. This free event is courtesy of AGT and Syngenta. You must be registered for the face-to-face event to attend the networking function.

### Dietary requirements (include name):

### Privacy

- ☐ I am happy to have my contact details retained by the Grains Research Development Corporation (GRDC) and Independent Consultants Australia Network Pty Ltd (ICAN) to communicate information regarding new developments in the grains industry. Your information will be handled in accordance with Australian Privacy Principles and the GRDC's privacy policy which can be accessed on the GRDC's website at [www.grdc.com.au](http://www.grdc.com.au)
- ☐ I wish my contact details to be removed from the database soon after this event.

### Payment method (please tick): (Sorry Amex & Diners not accepted)

- ☐ Visa ☐ MasterCard ☐ Cheque (enclosed) – cheques should be made payable to 'ICAN Pty Ltd'

Card Number:                 Expiry date:  /  CCV Number:

Card Holder (as on card):

Signature of cardholder:

### Cancellation policy

Registration fees will be refunded if you are unable to attend and we are advised two working days or more prior to the event.

### Contact details

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